S/049/60/000/004/014/018 E032/E314

Airborne Condensation Hydrometer with Automatic Recording of the Dew Point

frequency generator 7 which supplies the coil 6. This leads to the heating of the mirror. The condensation begins to evaporate, which in turn reduces the amount of light reflected, and consequently, the amount of heat supplied by the coil 6. As a result, an equilibrium deposit is obtained on the mirror and the temperature on the surface of the condensation is equal to the dew point. The instrument is thus similar to that described by Suomu (Ref. 2) and Barrett (Refs. 3 and 4). Fig. 5 shows a photograph of the whole instrument. It can be used to determine the dew point to an accuracy of about 0.4° . The inertia of the instrument does not exceed 0.6% according to laboratory tests. The dew point can be measured between +30 and -20°. The consumption of carbon dioxide in the refrigerator is not more than 20 to 30 g/h. Typical oscillograms obtained are shown in Fig. 6. Analysis of these oscillograms shows that the instrument can Card 2/3

5/049/60/000/004/014/018

Airborne Condensation Hydrometer with Automatic Recording of the Dew Point

be used to record fluctuations in the dew point having amplitudes down to 0.3° and duration down to 0.5 sec. There are 6 figures and 5 references: 2 Soviet and 3 English.

ASSOCIATION: Akademiya nauk SSSR Insitut prikladnoy

geofiziki (Academy of Sciences of the USSR

Institute of Applied Geophysics)

SUBMITTED: Ma

March 27, 1959

Card 3/3

HABIY, L.T., kand. sel'khoz. nauk; STOLLYAR, T.A., kand. sel'khoz. nauk; ASANOV, P.M., assistent; SELYANSKIY, V.M., kand. sel'-khoz. nauk; LOBIN, N.V., kand. sel'khoz. nauk; KOVIN'KO, D.A., kand. biol. nauk; MASLIYEVA, O.I., kand. sel'khoz. nauk; PETROV, V.M., kand. veter. nauk; ANAN'YEV, P.K., kand. veter. nauk; PENIONZHKEVICH, E.E., doktor biol. nauk, prof.; SERGEYEVA, A.M., kand. sel'khoz. nauk; BALANINA, O.V., kand. sel'khoz. nauk; GRIGOR'YEV, G.K., st. nauchnyy sotr.; KRIKUN, A.A., Geroy Sotsialisticheskogo Truda, kand. sel'khoz. nauk; YAROVOY, P.F., kand. veter. nauk; HELOKOBYLENKO, V.T., nauchnyy sotr.; GROMOY, A.M., kand. sel'khoz. nauk; MOSIYASH, S., red.; NAGIBIN, P., tekhn. red.

[Handbook for poultrymen] Kniga ptitsevoda. Alma-Ata, Kaz-sel'khozgiz, 1962. 354 p. (MIRA 16:5)

(Kazakhstan--Poultry)

NIKOL'SKIY, B.S.; GEDMOV, A.M., kand.sel'skokhozyaystvennykh nauk

Use of donor blood components by chicken recipents. Agrobiologiia
no.1:125-131 Ja-1 '62. (MIRA 15:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut ptitsevodstva,
g. Zagorsk, Moskovskaya oblast'.

(Poultry) (Blood--Transfusion)

GROEGV, Aleksandr Maksimovich, kund. sel'khoz. nauk; GROMOVA, A.V., red.

[Vegetative hybridization of poultry] Vegetativnaia gibridizat. iia ptits. Moskva, Izd-vo "Kolos," 1964. 141 p. (MIAA 17:8)

S/089/63/014/004/003/019 A066/A126

AUTHORS:

Belovintsev, K.A., Belyak, A.Ya., Gromov, A.M., Moroz, Ye.M., Cherenkov, P.A.

TITLE:

A 6.5 Mev microtron for electron injection into a synchrotron

PERIODICAL: Atomnaya energiya, v. 14, no. 4, 1963, 359 - 363

TEXT: It is first pointed out that the relatively high intensity of the electron beam attained in conventional microtrons, the simple design of the device, the escape of a relatively large amount of electrons from the accelerator, the great similarity of the electron energies, the small divergence angle of the electrons, and other facts indicate that the microtron may also serve as a synchrotron injector. These assumptions were checked by the authors on the 280 Mev synchrotron of the Fizicheskiy institut im. P.N. Lebedeva AN SSSR (Institute of Physics imeni P.N. Lebedev, AS USSR) with the aid of their 6.5 Mev microtron. The number of electrons retained during acceleration when a magnetron is used as a synchrotron injector is estimated at about 2.5 · 1010. It is thus proved that modern accelerators of this type are very efficient already now, and further de-

Card 1/2

S/089/63/014/004/003/019 A066/A126

A 6.5 Mev microtron for electron injection

velopment will make magnetrons even more suitable for this purpose. The magnetic poles and the sheets are made of CT.3 (St.3) steel. The magnetic poles are 600 mm in diameter, and the diameter of the operating area is 500 mm approximately. The magnet requires 450 w, and the supply of energy is stabilized with an error of about 0.03%. The pressure in the chamber is about 2 · 10-6 mm Hg. There are 3 figures.

SUBMITTED: June 27, 1962

Card 2/2

GROMOV, Andrey Nikolayevich; POLYAKOVA, V., red.; SHLYK, M., tekhn. red. [Lilac] Siren'. Moskva, Mosk. rabochii, 1963. 246 p. (MIRA 16:7) (Lilacs)

GROMON, Andrey Mikolayevich; SUKGLOVA, G., red.

[Gladiolus] Gladiolusy. Moskva, Mosk. rabochii, 1965.

(MIGA 18:12)

GROW, A. ..

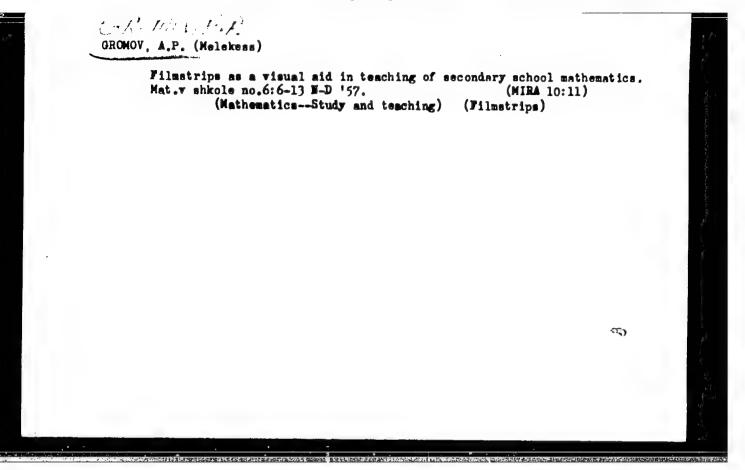
GROW, A. ..

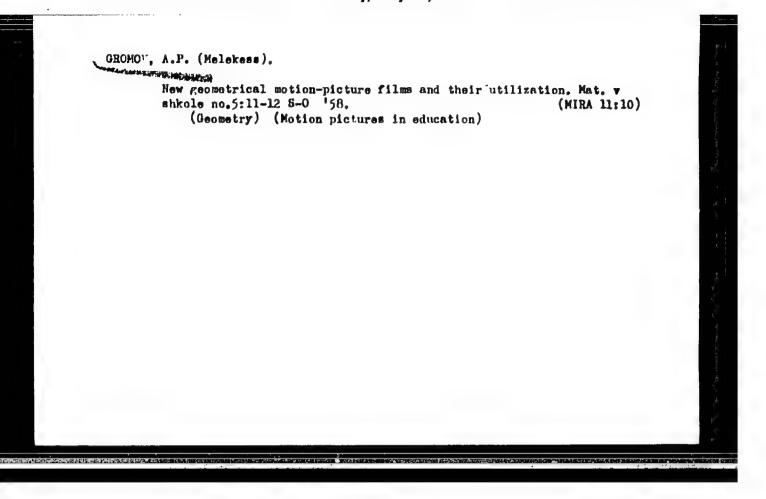
GROW, A. ..

Organs." Sub 16 Jun 52, First Moscow Order of Lenin Medical Inst.

(Dissertation for the Degree of Candidate in Medical Sciences).

So: Vechernaya Moskva January-December 1952





Problems in forensic otintric expert testimony. Vest.otorin.
20 no.2:42-46 Mr-Ap '58. (MIRA 12:11)

1. Iz loisetry sudebnoy meditainy (zav. - prof.V.F.Chervakov)
I Moskovskogo meditainskogo instituta.
(MURKET TENTINUM)
on forensic otintrics (Rus))
(MAR. dis.
expert testimony (Rus))

GROMOV. A.P.

Using filmstrips and motion pictures in mathematics classes of the secondary school. Uch. zap. MGPI 116:195-208 *58.

(MIRA 12:9)

(Mathematics -- Study and teaching) (Motion pictures in education)

GROMOV, A.P. (Melekess)

Training movies for mathematics abroad. Mat. v shkole no.5:71-73
S-0 '59.

(Mathematics-Study and teaching)
(Notion pictures in education)

BEKAREVICH, A.N. (Gomel'); BERESIAVSKIY, M.D. (Uzhgorod); GROMOV, A.P. (Melekess);
DUBINCHUK, Ye.S.; TESIENKO, I.F. (Kiyev); ZOLOTOVITSKIY, Ye.E. (Reutovo);
KAZHDAN, B.I. (Leningrad); KLIMENCHENKO, D.V. (Berdyansk); MEL'HIKOV,
K.S. (Sterlitamak); MIKHAYLOV, K.F. (Magnitogorsk); MASYROV, A.Z. (Sterlitamak); NEFEDOV, D.I. (Moskva); NOVOSELOV, S.I. (Moskva); PRAVILOV, B.R.
(s. Kanino Ryazanskoy obl.); PRINTSEV, N.A. (Kursk); SEMENOVICH, A.F.
(Sverdlovsk)

Discussion of the plans for the programs. Mat. v shkole no.6:5-28 N-D '59. (MIRA 13:3)

(Mathematics--Study and teaching)

GROMOV, A.P. (Melekes); PETRAKOV, I.S. (Moskva)

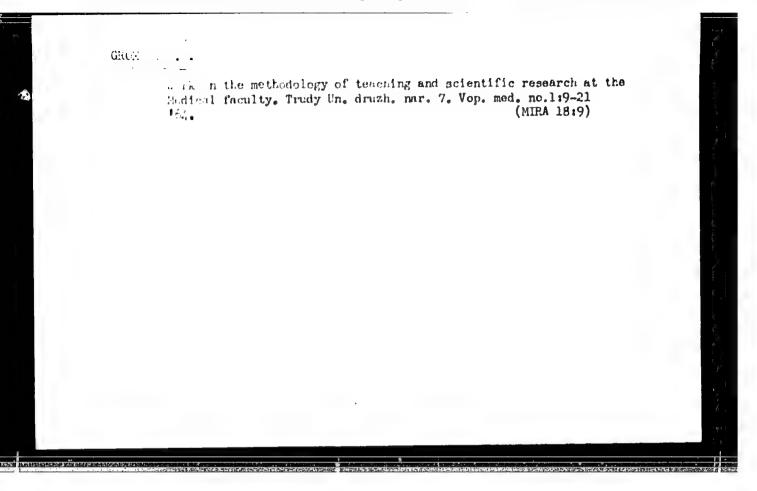
Use of slides in mathematical instruction. Mat. v shkole
no.2:87-88 Mr-Ap '61. (MIRA 14:4)

(Mathematics-Audio-visual aids)

GROMOV, A.F., knnd.med.nauk

Practical aspects in establishing causes of sudden death in miners.
Gig.i san. 26 no.1:109-112 Ja '61. (MIRA 14:6)

1. Iz kafedry sudebnoy meditsiny I Moskovskogo ordena Lenina meditsinskogo inaituta imeni I.M.Sechenova.
(MINERS_DISEASES AND HYGIENE) (DEATH_CAUSES)



"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051701

GCPOV, Aleksendr Fetrovich; FackA7GVA, K.V., red.

[Forensic medical expert* > on the degree of the gravity of bodily lesionsions; a methodological manual for students] Sudebnomeditainskaia ekspertiza stepeni

for students] Sudebnomeditsinskaia ekspertiza stepeni tiazhesti telesnykh povrezhdenii; metodicheskoe posobie dlia studentov. Moskva, Mosk. med. in-t, 1965. 32 p. (MIGA 18:12)

ALTUKHOV, B.N.; GEOMOV, A.P. (Felekess)

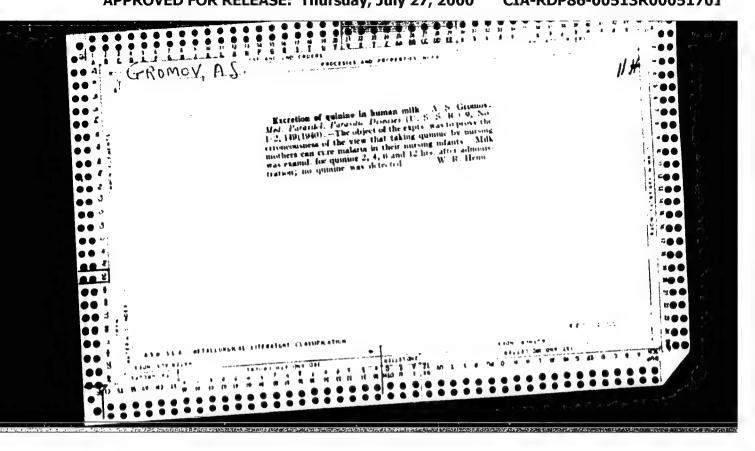
A new student's textbook. Mat. v shkole no.5:38-40 S-0 '63.

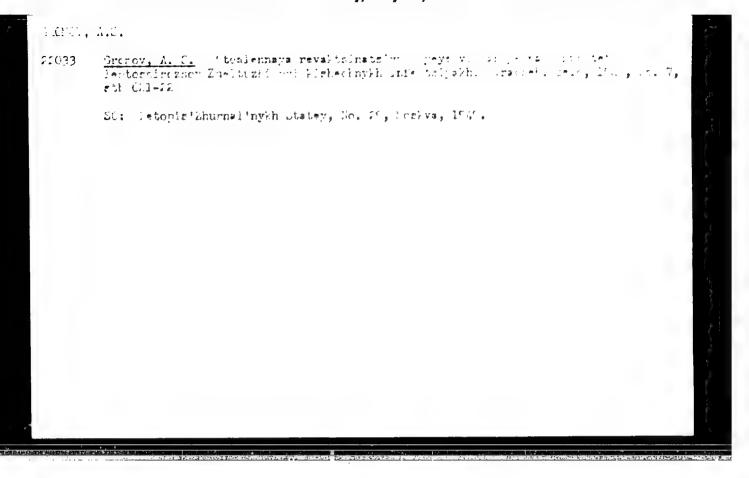
(MIRA 16:11)

MORDKOVICH, B.I.; NEYPERT, K.V.; GROMOV, A.P.; SANDRAK, Ya.R.; ANSO, Ya.ia.

Lowering nitrogen exide losses in tower sulfuric acid systems by means of automatic control. Khim.prom. no.12:832-837 D *161. (MIRA 15:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut udobreniy i insektofungitsidov i Khimicheskiy kombinat Maardu. (Sulfuric acid industry-Equipment and supplies) (Nitrogen oxide)





GEOMOV, A.S.

Duration of malarial infection, Sovet med, 16 no.4:29-30 Apr 19:2.

(GLML 22:1)

1. Of the Malarial Station of the Middle-Asiatic Water Health lepartment.

Vaccines and vaccination in control of dysentery. Zhur.mikrobiol.
epid.i immun. no.5:14-17 My '55. (MERA 3:7)

1. Iz Dnepropetrovskogo instituta epidemiologii, mikrobiologii i
gigiyeny.
(DYSENTERY, RAGILLIARY, prevention and control,
vacc.)
(VACCINES AND VACCINATION,
dysentery)

GROMOV, A. S.

GROMOV, A. S.: "The relationship between the antigenic and irrunogenic properties of typhoid vaccines." Min Health USJR. Central Inst for the Advanced Training of Physicians. Moscow, 1956.
(Dissertation for the Degree of Doctor in Medical Science.)

So: Knizhnaya letopis', No. 37, 1956. Moscow.

Role of receptive zones in immunogenesis in intestinal infections. Zhur.mikrobiol., epid. i immun. 27 no.8:107-108 Ag '56. (MLRA 9:10) 1. Is Dnapropetrovskogo instituta epidemiologii, mikrobiologii i gigiyeny. (TYPHOID FEVER, experimental, variability of response to various sites of infect. (Rus))

GROHOV, A.S., kandidat meditsinskikh nauk

Heterogenous and paradoxal immunity. Vrach. delo no.3:277-279
Wr '57 (MLRA 10:5)

1. Dnepropetrovksiy institut epidemiologii, mikrobiologii i gigiyeny.

(IMMUNITY)

Microbiotogical characteristics of Hewcastle's dysectery bacillus isolated in Dnepropetrovsk, Zhur.mikrobiol.epid. i i.m.n. 28 no.4: 87-93 Ap '57. (MIRA 10:10)

1. Iz Dnepropetrovskogo instituts epidemiologii, mikrobiologii i gigiyeny.

(Sdioria Paradysantrala biochen. & immunol. characteristics f various types)

OROHOV, A.S.; SIL'CHENKO, T.S.; PAFNUT'YEVA, G.V.

Immunological characteristics of Shigella dysenteriae strains isolated at the onset and in the terminal stages of disease; author's abstract. Zhur.mikrobiol.epid. i immun. 29 no.4:93-94 An 158. (MIRA 11:4)

1. Is Dnenronetrovskogo instituta enidemiologii, mikrobiologii i gigiyeny.
(SHIGELLA DYSENTERIAE,

immunol. aspects of strains isolated in early & late phases of dis. (Rus)

OROMOV, A.S., prof., doktor med.nauk. otv.rod.; ** TRAKAYA, Z.A., dotsent, red.; GORITSKAYA, V.V., dotsent, red.; KARAKASH, R.I., nauchnyy sotrudnik, red.; BADAYKV, D.A., tekhn.red.

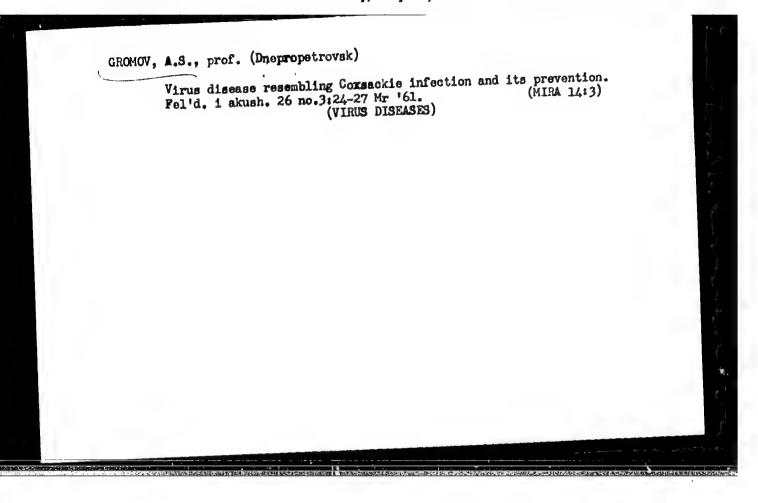
[Problems in the immunology, microbiology, and epidemiology of intestinal infections] Voprosy immunologii, nikrobiologii i epidemiologii kishechnykh infektsii. Dnepropetrovsk, 1959.

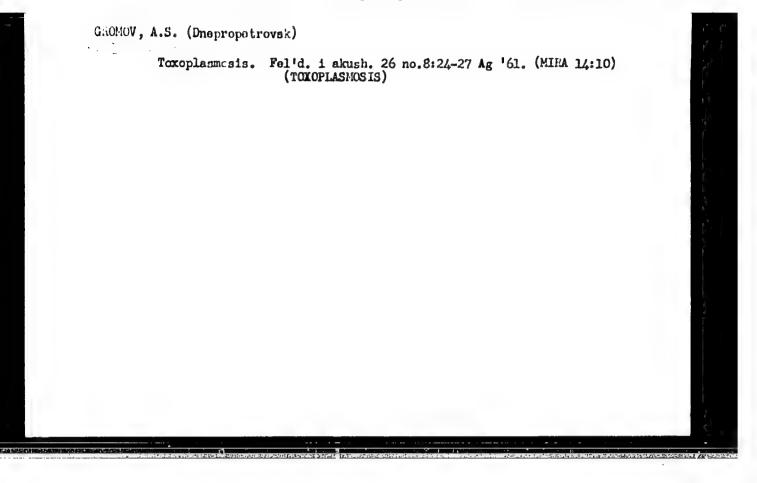
(MIRA 14:2)

1. Dnepropatrovskiy nauchno-issledovatel skiy institut epidemiclogii, mikrobiologii i gigiyeny im. N.F. Garmleys. 2. Direktor Dnepropatrovskogo nauchno-issledovatel skogo instituts epidemic-logii, mikrobiologii i gigiyeny im. N.F. Garmleys (for Gromov). (INTESTINES--DISEASES)

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051701





"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051701

Woltage regulation in loaded 6 kv TM-type transformers. Prom.

Woltage regulation in loaded 6 kv TM-type transformers. (MIRA 14:3)

energ. 16 no.2:21-23 F '61. (Electric transformers)

GROMOV, A.V.

Device for sttaching connections in rubber hoses. Mash.
i neft. obor. no.3:20-21 '64. (MIRA 17:5)

1. Odesskiy neftyanoy tekhnikum.

GROMOV, A. V.

Hinge-joint metal pipes for heating mazut. Transp i khran nefti no. 11:24-25 163. (MIRA 17:5)

1. Neftebaza No. 5 Odesskogo upravleniya Ukrglavneftesnabsbyta.

STRAKHOVICH, Konstantin Ivanovich, prof., doktor tekhn. nauk; SHTYE, A.W., aspirant. Prinimal uchastiye GROMOV, A.V., aspirant; KALININ, V.F., red.

> [Thermal gas dynamics and the theory of heat transfer] Termogazodinamika i teoriia teploobmena. Leningrad. Pt.2. 1964. 166 p. (MIRA 18:7)

1. Leningrad. Politekhnicheskiy institut. Kafedra "Teoreticheskiye osnovy teplotekhniki." 2. Kafedra "Teoreticheskiye osnovy teplotekhniki" Leningradskogo politekhnicheskogo instituta (for Shtym, Gromov).

SLUTSKER, A.I., GROMOV, A.Ye.

Study of orientation in polymer fibers by the x-ray diffraction method.

Report presented at the 13th $^{\rm C}{\rm onference}$ on the high-molecular compounds Moscow, 8-11 Oct 62

\$/0000/63/000/000/0247/0252

ACCESSION NR: AT4020714

AUTHOR: Gromov, A. Ye.; Slutsker, A. 1.

TITLE: Investigation of the structure of polyethylene by x-ray diffraction

methods at wide and small angles

SOURCE: Karbotsepnykye vyksokomolekulyarnykye soyedineniya (Carbon-chain macromolecular compounds); sbornik statey. Moscow, Izd-vo AN SSSR, 1963, 247-252

TOPIC TAGS: polyethylene, crystalline polymer, x-ray diffraction, crystal orientation, polyethylene structure, spherulitic structure

ABSTRACT: Wide- and small-angle x-ray diffraction patterns of high-pressure polyethylene films and the same films after slow unlaxial stretching at room temperature to 5 times the initial length showed large periods with dimensions equal to 260 and 116 Å, respectively. These periods differed from one another by the fact that in the initial (unstretched) state, they lay in a direction perpendicular to the axis of the chain molecules present in the crystals, while in the oriented state these directions coincided (and lay along the axis of stretching of the sample). The characteristic, meridional, large periods with a stable value of 116A are formed immediately after the beginning of the stretching and their number increases markedly on continued stretching. The passage of the poly-

ACCESSION NR: AT4020714

ethylene from the initial, unoriented state to the oriented state is accompanied by marked structural changes in the supermolecular level, due apparently to the destruction of the initial crystals, the strong reorientation of the polymer chains and the formation of new crystals oriented in the C axes approximately along the axis of stretching. This picture can be connected with the spherulitic structure of unoriented polyethylene, the gradual destruction of the spherulites and the development of a fibrillar structure according to the orientation. "The authors express their sincere appreciation to S. N. Zhurkov for his continuous attention and interest in this work and to D. Ya. Tsvankin for his useful suggestions and the discussion of the results. They are also indebted to B. M. Rovinskiy and A. I. Avdeyenko for preparing working drawings of the X-ray tube and acting as consultants in its construction." Orig. art. has: 3 figures.

ASSOCIATION: Fiziko-tekhnicheskiy institut AN SSSR (Physics-Engineering Institute,

AN SSSR)

SUBMITTED: 11Ju162

DATE ACQ: 20Mar64

ENCL: 00

SUB CODE: OC, MT

NO REF SOV: 002

OTHER: 012

Card 2/2

L 19943-63 EPR/EWP(j)/EWT(m)/EPF(c)/BDS-AFFTC/ASD-Ps-4/Pc-4/Pr-4-RM/WW/MAY S/0181/63/005/008/2185/2192

AUTHORS: Gromov, A. Ye.; Slutsker, A. I.

TITLE: Determining degree of orientation of crystallites in polymers by x-ray diffraction

SOURCE: Fizika tverdogo tela, v. 5, no. 8, 1963, 2185-2192

TOPIC TAGS: orientation, crystallite, polymer, x-ray diffraction, molecule, azimuthal angle, equatorial angle, infrared, dichroism, double refraction, disorientation

ABSTRACT: The authors undertake this study because they feel it urgent for obtaining high strength in polymer structures. They have computed the connection between azimuthal width of reflections (of x-ray diffraction) and the distribution of crystallites according to orientation in the polymer. They consider rather strongly-oriented polymers. The axes of the polymer molecules are used to measure the orientation (or as indicators of the orientation). Computations were made for equatorial reflections, since it is in this region that the principal crystalline reflections coming from planes parallel to the molecular axes are focused in

Card 1/8/

L 19943-63

ACCESSION NR: AP3005325

oriented polymers. These computations require that the orientation be uniaxial, and that this axis must be the symmetry axis. The direction of other crystallographic axes in the crystallite (apart from the molecular axes) is considered . to have equal probability about the molecular axes. It is also important that orientation be high, and that the x-rays be not too soft (X < 2Å). Results show the reflection intensity to fall off rapidly with azimuthal angle, approaching zero at 5 to 10°. Stretching decreases the value of azimuthal angle at which reflection intensity approaches zero. The degree of orientation in oriented fibers may reach a very high value; the average angle of disorientation is on the order of but a few degrees. The authors conclude that it is safe to determine the disorientation of crystallites where this disorientation is on the order of several degrees and to trace out angular changes within this range only by x-ray diffraction. Optical methods of orientation -- infrared dichroism and double refraction -- are found to be too insensitive at high degrees of orientation. "The authors express their sincere thanks to D. Ya. Tsvankin for discussion of the results." Orig. art. has: 8 figures and 2 formulas.

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe AN SSSR, Leningrad (Physical and Technical Institute, Academy of Sciences, SSSR)

Card 2/02

ACCESSION NR: AP4013504

8/0181/64/006/002/0456/0461

AUTHORS: Slutsker, A. I.; Gromov, A. Ye.; Pshezhetskiy, V. S.

TITLE: Structure and strength of whisker crystals of polyoxymethylene obtained by directional polymerization

SOURCE: Fizika tverdogo tela, v. 6, no. 2, 1964, 456-461

TOPIC TAGS: whisker crystal, polyoxymethylene, polymer, polymerization, directional polymerization, strength, crystal strength, crystal structure

ABSTRACT: The authors have studied oriented polyoxymethylene in whisker crystals by x-ray diffraction. The crystals were grown by polymerization in trioxane crystals by radiation initiation. Results show that layered structure does not develop because the specific growth of the polymer crystal does not allow the polymer molecule to incline toward the fold conformation. In contrast to the layered structure in crystals grown from solution, the structure of crystals grown by directional polymerization lacks the layered structure. The structures are illustrated diagrammatically in Fig. 1 on the Enclosure. The strength of the whisker crystals of polyoxymethylene decreased with increase in crystal diameter, from 350

Card 1/3 /

ACCESSION NR: APLO13504

kg/mm² for crystals with a diameter of 2.4 microns to only 36 kg/mm² for crystals with a diameter of 12 microns. Many reasons may be found for this, but the authors believe the basic reason to be more complete polymerization in the more slender needles. They consider the ease with which the larger needles split into smaller needles to be evidence of this conclusion. "The authors express their sincere thanks to Professor A. V. Stepanov and E. M. Nadgornymy for making possible the use of their experiments and setups for investigating polymers. L. Gorshkova, a student at LPI im. M. I. Kalinina, took part in making the measurements. The authors also sincerely thank S. N. Zhurkov for his interest in the work and his valuable discussions." Orig. art. has: 3 figures and 1 table.

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe AN SSSR, Leningrad (Physical and Technical Institute AN SSSR)

SUBMITTED: 03Aug63

DATE AOQ: 03Mar6h

ENCL: 01

SUB CODE: PH

NO REF SOV: OOL

OTHER: 006

Card 2/3 7_

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051701

Fc-4/Pe-5/Pr-4/PL-4 EWR(1)/EWE(m)/EPF(o)/EWG(+)/EFP(1)/T/EEL(b)-2 YU29-65 S/0190/65/007/003/0546/0550 63/731 1.1.7161 ACCESSION NR: AP5008379 Gromov, A. Ye.; Slutsker, A. I. Change in the supramolecular structure of crystallizing polymers on orien-AUTHOR: TITLE: SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 3, 1965, 546-550 tation TOPIC TAGS: supramolecular structure, crystallizing polymer, orientation, orientation mechanism ABSTRACT: The change in the morphological forms (supramolecular structure) of crystallizing polymers on orientation stretching and the relationship between the initial and final oriented structures have been studied with high-pressure polyethylene and capron specimens. The study was conducted to arrive at a better understanding of the orientation mechanism of polymers. The specimens were oriented by stretching at different temperatures. Their supramolecular structures were determined from small angle x-ray diffraction data. It was shown that the surramolecular structures produced by orientation or reorientation under given conditions are independent of the initial polymer structure. At low stretching rates the quantitative characteristics describing the supramolecular structures are

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051701

L 37729-65 ACCESSION NR: AP5008379

clearly defined by the temperature of stretching. The mechanism of rearrangements in polymers on orientation may involve the breakdown of the initial supramolecular structure followed by the formation of a stable fibrillar structure inherent in the oriented state. Orig. art. has: 4 figures. [BO]

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe AN SSSR (Physicotechnical Institute, AN SSSR)

SUBMITTED: 22Jun64

ENCL: 00

SUB CODE: OC, MT

NO REF SOV: 007

Card 2/2 60

OTHER: 009

ATD PRESS: 3224

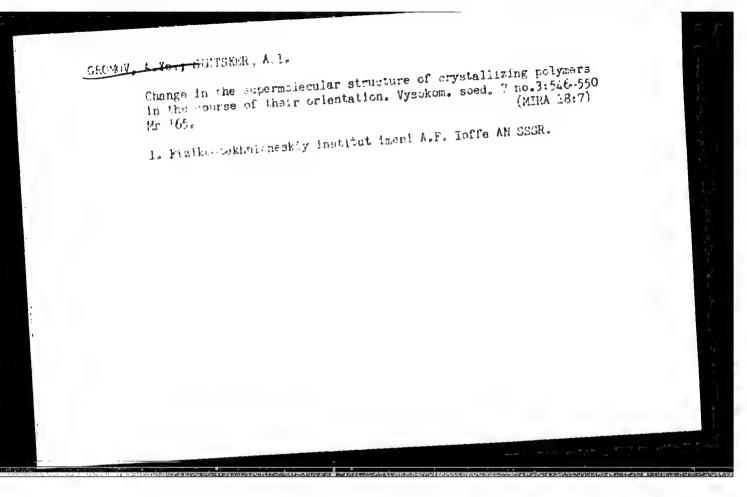
GROMOV, A. Ye.; SLUTSKER, A.I.

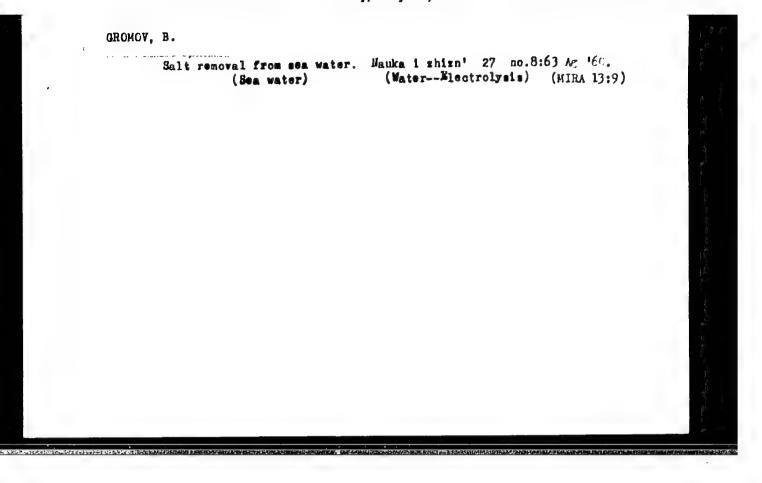
Apparatus using a microbeam for studying X-ray scattering at small angles. Prib. i tekh. eksp. 9 no.3:165-169 My-Je '64 (MIRA 18:1)

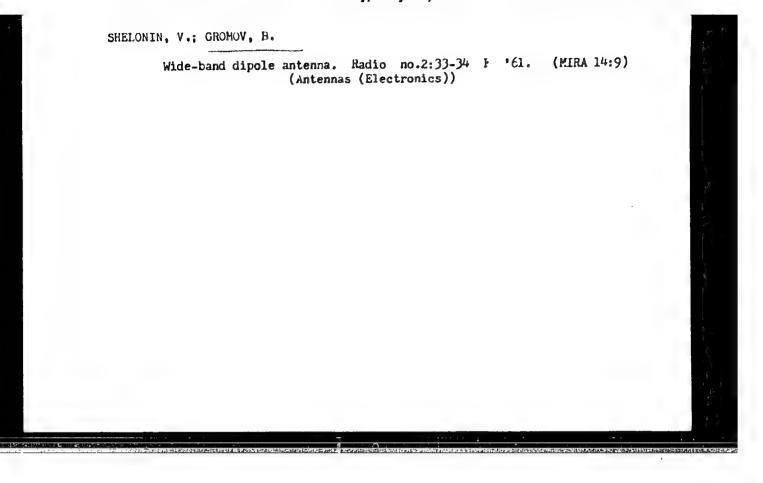
1. Fiziko-tekhnicheskiy institut AN SSSR.

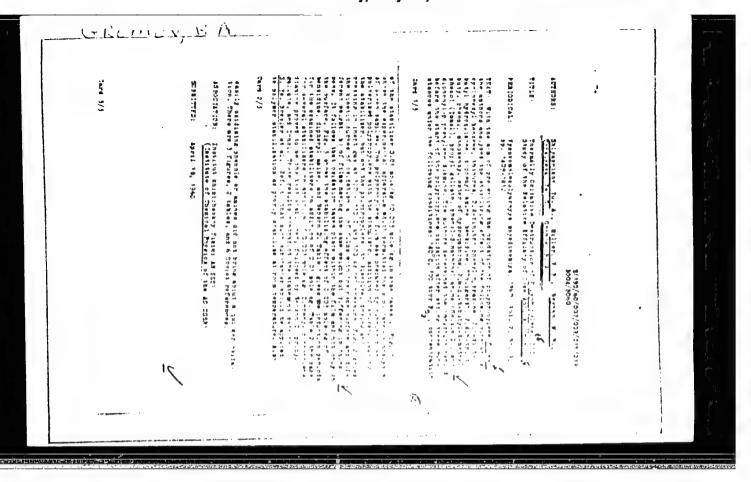
"APPROVED FOR RELEASE: Thursday, July 27, 2000

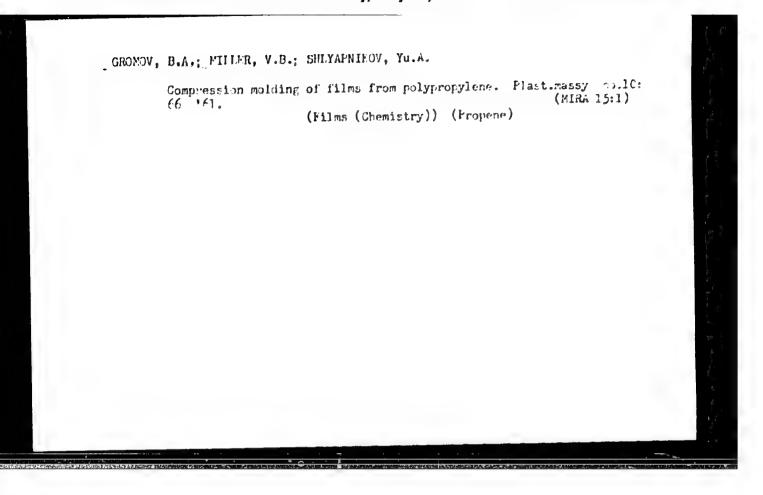
CIA-RDP86-00513R00051701











26298 S/190/61/003/009/011/019 B110/B218

15 8700 2203

AUTHORS:

Gromov, B. A., Miller, V. B., Neyman, M. B., Shlyapnikov, Yu.

--A---

TITLE: Study of the mobility of ional in polypropylene and poly-

formaldehyde

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 3, no. 8 1961,

1231-1233

TEXT: It was the aim of the present work to determine the diffusion coefficient D of the antioxidant ionol (2.6-di-tert-butyl 4-methylphenol) in solid isotactic polypropylene (PP) and polyformaldehyde (PF). Ionol tagged with \mathbf{C}_{44} was examined. In this, the authors followed the method

by A. A. Zhukhovitskiy et al. (Primeneniye radioaktivnykh izotopov v metallurgii (Application of radioisotopes in metallurgy). Metallurgizdat. metallurgii (Application of radioisotopes in metallurgy). Metallurgizdat. Sb. 34, 1955, p. 102) Tagged ionol (app. 1.2 mg for PP. ani app. 0.5 mg for PF) was applied to the polymer plate (1.2 mm thick). The plates were for PF) was applied to the polymer plate (1.2 mm thick).

heated to experimental temperature (60-110°C for PP, 80-1°C°C for PF).

Card 1/3

16298

s/190/61/003/008/011/019 B110/B218

Study of the mobility of ional in ...

and the activity was measured, which decreased due to diffusion of ional into the plates. According to Zhukhovitakiy, the curve $I/I_0 \cdot f(t^{-1/2})$ has an asymptote which passes through the origin of coordinates. Between D and the tangent of the asymptote, the relation $D = (I_{\infty}^2 d^2)/(I_0^2) f \cdot m^2$ holds, where d = thickness of the sample, m = tangent of the slope, and $I_{\infty} = activity$ after an infinite time of diffusion. With D being sufficiently large, the β rays of C_{14} cannot practically penetrate the plate so that one may write down for $I_{\infty}(I_{\infty}) = I_0/Md$. Here, μ is the absorption

coefficient of β -radiation (as is the case with most organic substances it is 0.28 cm²/mg). To exclude losses of ionol, the authors also chose an experimental arrangement in which the ionol was applied between two polymer plates. In this case, they measured the sum I_1+I_2 of the activity of both plates, and found: (1) for PP, D = $5\cdot10^6$ exp (-23000/RT); (2) for PF, D = $2.5\cdot10^4$ exp (-16300/RT). Due to the high diffusion rate of ionol Card 2/3

26298

S/190/c / 003/000/011/019 B110/B218

Study of the mobility of ion $\mathbf{d}_{\mathbf{k}}$

in PP, even an incomplete mixing of the antioxidant with the polymer is sufficient. There are 2 figures and 3 Soviet references.

ASSOCIATION: Institut khimicheskoy fiziki AN SSSR (Institute of Chemical Physics AS USSR)

SUBMITTED: November 30, 1960

Card 3/3

ACCESSION NR: AP4030363

5/0190/64/006/003/0470/0472

AUTHORS: Gromov, B. A.; Miller, V. B.; Shlyapnikov, Yu. A.

TITLE: Correlations in the performance of inhibitors in exidation reactions.

5. Kinetics of cl-naphthol consumption in the induction period

SOURCE: Vywsokomolekulyarnywye soyedineniya, v. 6, no. 3, 1964, 470-472

TOPIC TAGS: polypropylene, exidation of polypropylene, exidation inhibitor, alpha-naphthol, 2,2-methylene-bis-(h-methyl-6-tert.butylphenol), didecilsulfide, temperature effect, exygen effect, exidation induction period, activation energy

ABSTRACT: The consumption rate of O -naphthol in the induction period of polypropylene exidation at various temperatures and exygen pressures was studied. The technique is described in an earlier publication by the authors and M. B. Neyman (Sb. Khimicheskiye svoystva i modifikatsiya polymerov. Izd. "Nauka," 1964). It was found that by using 0.2 mole of alpha-naphthol per 1 kg of isotactic polypropylene, at a constant exygen pressure of 300 mm mercury, the induction period of polypropylene exidation decreased from 510 to 240 minutes with an increase in temperature from 180 to 200C. It was also revealed that at a constant

Card 1/2

ACCESSION NR: APLO30363

temperature of 2000 the duration of the induction period dropped from 450 to 150 minutes when the oxygen pressure was raised from 150 to 650 mm Hg. Calculations showed that in the middle part of alpha-naphthol consumption the rate constant exhibited a linear relation to the oxygen pressure, and that the temperature dependence of the induction period was 16.8 kcal/mole. The addition of 0.01 mole of the oxidation inhibitor 2,2-methylene-bis-(4-methyl-6-tert.butyl-phenol) per 1 kg of polypropylene with an equal amount of alpha-naphthol (at 2000 and an oxygen pressure of 300 mm Hg), shortened the induction period to 225 minutes, as against 285 minutes needed for alpha-naphthol alone. On the other hand, the simultaneous incorporation of 0.1 mole/kg of alpha-naphthol and 0.08 mole/kg of the inhibitor didecilsulfide extended the induction period to 510 minutes, as compared with 160-170 minutes for alpha-naphthol alone. The authors theorize that the oxidation inhibiting performance of alpha-naphthol was caused by the pressure of its transformation products. Orig. art. has: 5 figures.

ASSOCIATION: Institut khimicheskoy fiziki AN SSSR (Institute of Chemical Physics AN SSSR)

SUBMITTED: 11Mar63

DATE ACQ: 07May6h

ENCL: 00

SUB CODE: OC

NO REF SOV: 002

OTHER: OOO

L 29992-65 EWT(m)/EPF(c)/EWP(j) Pc-4/Pr-4 RM

ACCESSION NR: AP4047220 S/0190/64/006/010/1895/1900

AUTHOR: Gromov, B.A.; Miller, V.B.; Neyman, M.B.; Torsuyeva, Ye. S.; Shlyapnikov, Yu. A.

TITLE: Mechanism of action of weak antioxidants during the oxidation of polypropylene

SOURCE: Vy*sokomolekulyarny*ye soyedineniya, v. 6, no. 10, 1964, 1895-1900

TOPIC TAGS: polypropylene, polypropylene exidation, antioxidant, monophenol, isotactic polypropylene, antioxidant consumption

ABSTRACT: In order to confirm the hypothesis that all monphenols are weak antioxidants, the author investigated the oxidation of isotactic polypropylene in the presence of 2, 4, 6-tri-tert.-butylphenol, 2, 6-ditert.-butyl-4-phenylphenol and 4, 4'-methylene-bis-(2, 6-di-tert.-butylphenol). Samples of polypropylene were oxidized in sealed ampoules as described in earlier papers. In addition to determining the consumption of the monophenol, the authors measured the water content in the gas phase of the ampoule, and in some cases the characteristic viscosity (in tetralin at 130C). The results showed that the monophenol was consumed according to a zero order law, at a rate proportional to the oxygen pressure; the rate was decreased by the presence of didecylsulfide. In the presence of antioxidant, the molecular weight of the polymer decreased sharply, and oxidation was Card 1/2

L 29992-65 ACCESSION NR: AP4047220

found to proceed in a non-stationary way at all antioxidant concentrations. Mathematical analysis of these results indicated that the reason for the low degree of effectiveness of the monophenols as antioxidants is that they stimulate branching of the kinetic oxidation chain. Orig. art. has: 1 table, 6 figures and 11 equations.

ASSOCIATION: Institut khimicheskoy fiziki AN SSSR (Institute of Chemical Physics, AN SSSR)

SUBMITTED: 26Dec63

ENCL: 00

SUB CODE: OC, GC

NO REF SOV: 005

OTHER: 000

Card 2/2

EWT(m)/EWP(1)SOURCE CODE: UR/0190/66/008/008/1411/1413 00833-67 AP6027774 (A) ACC NR Yasina, L. L.; Gromov, B. A.; Miller, V. B.; Shlyapnikov, Yu A. AUTHOR: ORG: Institute of Chemical Physics, AN SSSR (Institut khimicheskoy fizikí AN SSSR) TITLE: Investigation of polypropylene oxidation stabilized with 4-methyl substituted alkylphenols SOURCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 8, 1966, 1411-1413 TOPIC TAGS: alkylphenol, phenol, polypropylene, oxidation ABSTRACT: The oxidation of polypropylene in the presence of 2,6-di-tertbutyl-4-methylphenol and 2,6-diisobornyl-4-methylphenol has been investigated. At a certain moment of the induction period, the rate of phenol consumption is sharply decreased. The moment occurs with the maximum concentration of nonvolatile products of antioxidant conversion. It is shown that the self-accelerating oxidation process becomes UDC: 678.01:54+678.742 Card

ACC NR: AP							9
stationary conversion. authors! ab	Orig	ome time due g. art. has:	to the effe l figure a	ct of production of 2 formula	ts of a	ntioxidant sed on [NT]	
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Card 2/2							

ENT(m) DIAAP DM ACC NR. AP5022639 UR/0089/65/019/002/0179/0180 AUTHOR: Gromov. B. F.; Yermakov. S. M.; Kazarnikova, Ye. Ye.; Solodyankin, M. A. 26 TITLE: Angular and energy distribution of gamma radiation on the 8 SOURCE: Atomnaya energiya, v. 19, no. 2, 1965, 179-180 TOPIC TAGS: nuclear reactor, gamma radiation, nuclear physics apparatus ABSTRACT: Many layers of material are usually placed in nuclear reactors between the reactive core itself and the outside surface of the shield. Therefore, various attenuation processes must be taken into account in calculations of biological shielding. The authors investigated the angular and energy distribution of gamma radiation on the outside surface of the reactor. The results of their research are given for two cases. In one case, the reactor vessel was protected in water by a boron shield while in the other case no boron shielding was provided. The Monte Carlo method was used for calculations by means of M-20 electronic computing machine. It was assumed, that the gamma rays were generated at the initial energy levels of 2, 3, 4, 5, 6 and 7 Mev. Card 1/2 UDC: 539.122:539.121.73:539.121.64

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051701

L 5066-66 ACC NR. AP5022639 0 The greatest statistical error after 12000 tests was less than 25% for angular and 20% for energy distributions. The distributions applied to two above mentioned cases and seven energy levels were illustrated by two sets of histograms. The attenuation of 7 Mev gamma radiations in lead shields was also analyzed. The results of this analysis expressed in dose rates were tabulated and graphically illustrated. None ASSOCIATION: SUBMITTED: 20Mar65 ENCL: 00 BUB CODE: MP NO REF BOY: 000 OTHER: 000

GROMOV, B.F.; TROFIMOV, A.S.

Heat transfer in nuclear reactors. Inzh.-riz. zhur. 7 no.6:31-36
Ag '64. (MICA 17:10)

1. Fiziko-energeticheskiy institut, Obninsk.

L 2691L-65 EWP(e)/EWT(m)/EPF(n)-2/EWO(m)/EWP(t)/EWP(b) Pu-L IJP(c) JD/DM

ACCESSION NR: AP5004010

s/0089/65/018/001/0069/0070

AUTHORS: Gromov, B. F.: Pankratov, D. V.; Solodyankin, M. A.; Sokolov, M. M.

25

TITLE: Reduction of the capture gamma radiation from structural reactor materials by screening the materials with boron-containing screens

SOURCE: Atomnaya energiya, v. 18, no. 1, 1965, 69-70

TOPIC TAGS: reactor shielding, capture gamma radiation, boron shielding

ABSTRACT: The authors point out that earlier experimentally determined coefficients expressing the decrease in the intensity of capture gamma rays from reactor construction materials were obtained for only one particular case, where the gamma detector was located at approximately half the mean free path from the surface of the

Card 1/3

L 26914-65

ACCESSION NR: AP5004010

2

source, whereas the coefficient of reduction of the capture gamma dose (blocking coefficient) was really a function of the thickness between the source and detector. They have calculated with an electronic computer the spatial and energy distributions in steel screens and in the reactor shell using an 18-group method in the P2 approximation, for the case of a reactor with and without a boron-containing screen. It has been shown earlier that leakage of neutrons gives rise to capture gammas in the reactor shell, which increases the gamma level outside the reactor. The calculations show that the decrease in the capture gamma radiation is quite rapid until a value of 4 mean free paths is reached, after which the coefficient becomes independent of the thickness. "The authors thank S. G. Tsykin and Yu. A. Kazanskiy for interest in the work and for critical remarks." Orig. art. has: 2 figures and 1 formula.

ASSOCIATION: None

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2/3

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SUB CODE:

L 26914-65

ACCESSION NR: AP5004010

SUBMITTED: 02Jan64 ENCL: 00

NR REF SOV: 003 OTHER: 000

Card 3/3

EYCHKOV, Yu.F.; ROZANOV, A.N.; GROMOV, B.I.; CHEBURKOV, V.I.

Laboratory equipment for the vacuum distillation of lithium with a complete filling of the crucibles. Met. i metalloved. chist. met. no. 2:171-177 '60. (MIRA 13:12)

(Lithium-Metallurgy)

(Metallurgical laboratories---Equipment and supplies)

GROMOV, B.F., mashinist tenlovoma

First forty tons of saved fuel are there: Elek. i tepl.tiaga 7 mo.ll:
13 N '63. (MIRA 17:2)

1. Depo Vologda Severnoy dorogi.

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                     -65 ENT(1)/ENT(m)/EPF(c)/EPF(n)-2/EPR/T/EPA(DD)-2/MW
ASD(1)/BSD/SSD/AEDC(b)/AFNL/AS(mp)-2/AEDC(a)
S/0170/64/000/008/0031/0036
I 8407-65
                                                          AP4044413
                                      Gromov, B. F.1 Trofinov, A. S.
 ACCESSION NRI
 Pu-li
                                          Inzhenerno-fizicheskiy zhurnal, no. 8, 1964, 31-36
         TOPIC TAGS: nuclear reactor, reactor, heat transfer, heat transfer
    AUTHORS
                                                        The Obninsk Institute of Physics and Power Engineering
      TITLE
              ABSTRACT: The Upninsk Institute of Physics and Power Engineering in nuclear transfer in nuclear transfer the transfent processes and heat transfer defining the translent of this study basic equations defining the result of this study.
                has studied the transient processes and heat transfer in nuclear the basic equations defining fuel basic equations. As a result of this study, temperature of multilayer temperature of a coolant and surface solution was obtained for conceptable of a coolant analytical solution was obtained for conceptable of a coolant analytical solution was obtained for conceptable of a coolant analytical solution was obtained for conceptable of a coolant analytical solution was obtained for conceptable of a coolant analytical solution was obtained for conceptable of a coolant analytical solution was obtained for conceptable of the coolant analytical solution was obtained for conceptable of the coolant analytical solution was obtained for conceptable of the coolant analytical solution was obtained for conceptable of the coolant analytical solution was obtained for conceptable of the coolant analytical solution was obtained for conceptable of the coolant analytical solution was obtained for conceptable of the coolant analytical solution was obtained for conceptable of the coolant analytical solution was obtained for conceptable of the coolant analytical solution was obtained for conceptable of the coolant analytical solution was obtained for conceptable of the coolant analytical solution was obtained for conceptable of the coolant analytical solution was obtained for conceptable of the coolant analytical solution was obtained for conceptable of the coolant analytical solution was obtained for conceptable of the coolant analytical solution was obtained for conceptable of the coolant analytical solution was obtained for conceptable of the coolant analytical solution was obtained for conceptable of the coolant analytical solution was obtained for conceptable of the coolant analytical solution was obtained for conceptable of the coolant analytical solution was obtained for conceptable of the coolant analytical solution was 
        SOURCE !
                  temperature of a coolant and surface temperature of multilayer fuel obtained for con-
elements were derived. An analytical solution was obtained for elements of arbitrary variation in heat release and the coolant tem-
                    elements were derived. An analytical solution was obtained for tem-
ditions of arbitrary variation in heat release and the coolant Original Coolant flow rate.
            agent
                    ditions of arbitrary variation in heat release and the coolant for the reactor in heat release and the coolant flow rate.

perature at the reactor inlet at a constant coolant flow rate.

art. haat 11 formulas and 3 figures.
                                                                                                                                                                                                                                                                                      Orig.
                        ASSOCIATION: Pisiko-energaticheskiy institut, Obninsk (Instituta of
                      barachia ar rua rascrot rurar ar a cor
                           Physics and Power Engineering)
                          c-A 1/2
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L 8407-65
ACCESSION NR: AP4044413

SUBMITTED: 03Hay63

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SUB CODE: NP

NO REF SOV: 002

OTHER: 004

Card 2/2

28063

8/137/61/000/004/536/039 A056/A101

18.3100

Bychkov, Yu. F., Rozanov, A. N., Gromov, B. I., Cherbukov, V. T.

TITLE:

AUTHORS:

Laboratory installation for vacuum distillation of lithium with the

filling of the crucible

PERIODICAL: Referativnyy zhurmal, Metallurgiya, no. 4, 1961, 50, abstract 41399 (V sb. "Metallurgiya i metallovedeniye chistykh metallov", no. 2,

M., Atomizdat, 1960, 171-177)

The schematic diagram of a distiller for obtaining Li is described TEXT: Its operating conditions are as follows: The varueization temperature of electrolysis crude lithium is such, that Li itself and the more volatile components (K and Na) are sublimated, while the less volatile (Fe and Ni) remain in the evaporator; the condenser temperature is fixed so that Li, precipitating at liquid state, should flow into the crucible, while the more volatile components should vaporize and precipitate only in the colder parts of the distiller The processing is effected under a pressure of 10-4 mm Hg. The purity of Li attains 99.96%. I N.

[Abstracter's note: Complete translation]

Card 1/1

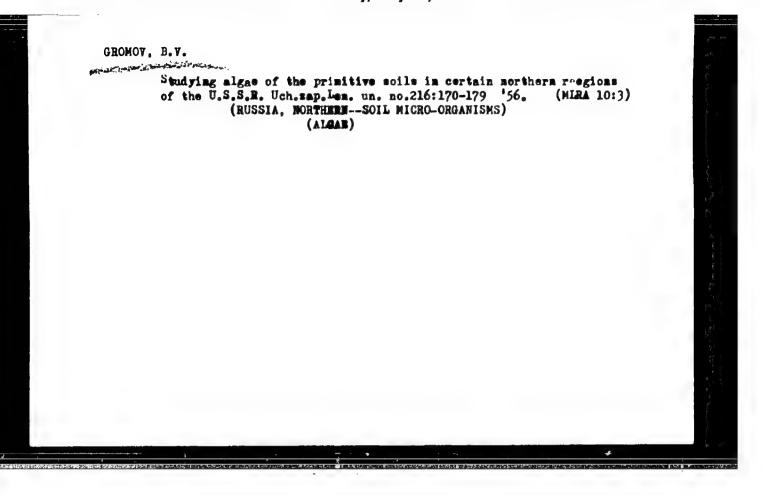
GROMOV, Boris Vasil'yevich, zhurnalist; BUHENSHCHIKOV, S., red.

[104 men on drifting ice...] 104 - na dreifutuskchei...
Moskva, Politizdat, 1964. 68 p. (MIRA 17:12)

1. Spetsial'nyy korrespondent gazety "Izvestiya" (for Gromov.

GHCMOV, Boris Vasil'evich.

The expedition of the "Sibiriakov" Moskva, Sov. lit. 1934 . 252 p.



USSR/Suil Science - Diology of Spils.

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Abs Jour : Ref Zhur Biol., No 22, 1958, 100035

Author : Gromov, B.V.

Title : Microglora of Rocks in Primitive Soils of Certain

Northern Regions in the USSR

Original : Mikrobiologiya, 1957, 26, No. 1, 52-59

Abstract : On the surface of rock specimens of the Khibin Mountains

and of the coast of Lake Ladora (acridine orange dye, observation in a fluorescent microscope), colonies of alone, bacteria and funci were found. Various microoraphisms grow in the plants on scrapings from the surface of the rocks. In melkozen / shallow earth / under lichens, mosses and grasses especially numerous are the ammonificators, oligonitrophyll bacteria, bacteria graving in a starch-ammoniacal médium, mold funci and alone.

Everywhere are encountered butyrate lacteria, in

Card 1/2

- 39 -

"APPROVED FOR RELEASE: Thursday, July 27, 2000

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Abs J.ur : Ref Zhur Biol., No 22, 1958, 100035

particular Clostridium pasteurinum. Sperirerous aumonificators, denitrificators and aerobic cellulose-destroying lacteria in primitive soils are not numerous, while nitrificators and and denoter are one unitered very soldom. The cellulose tissue is decomposed primarily by fungi. The microflora characteristics of primitive soils depends upon their geographic distribution and their vegetative cover, Microflora of the soils, situated farther south, are relatively richer. In melkozen, under the lichens, oligonitrophylls predominate. Sporiferous amonificators, in relatively large amounts, are found under some mosses and in comparatively evolved soils. -- T.A. Aristovskaya

Card 2/2

E 27 T 1 4 4 5 2

of Concentration of Nutritional Medium in the Study of Soil Microorganisms," Leningrad, 1959, 16pp (Leningrad Order of Lenin State Institute imeni A. A. Zhdanov) (KL 4-60, 116)

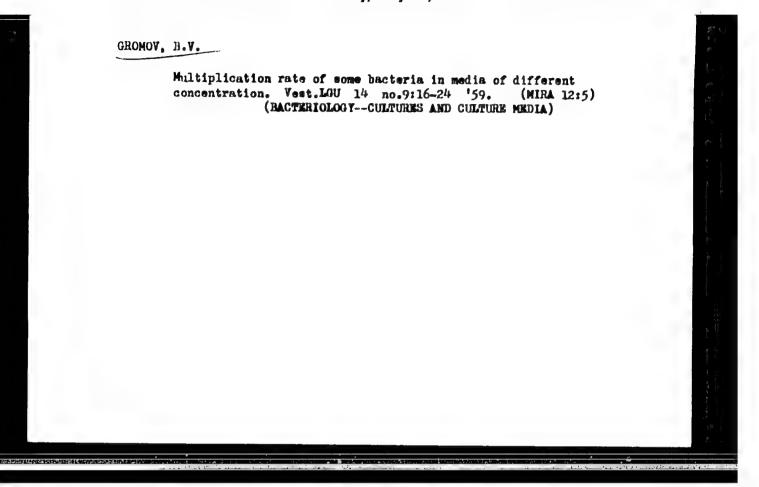
GROMOV, B.V.

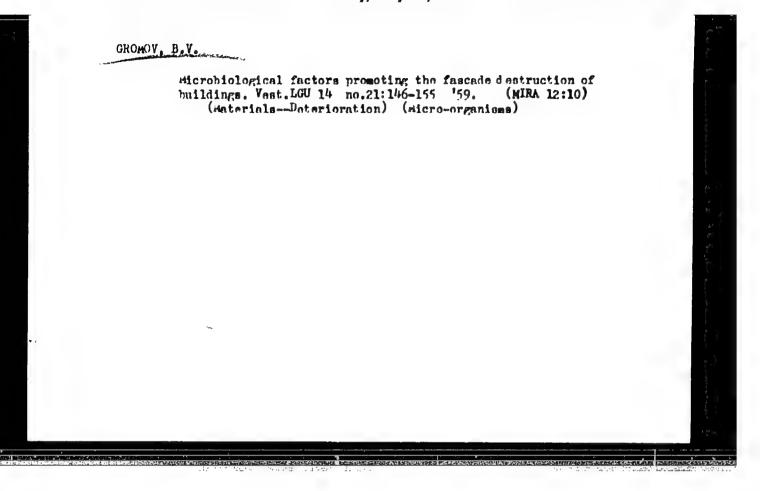
Significance of the cencentration of the nutrient medium in determining the number of micre-organisms in various soil types [with summary in English]. Pechvededenie no.2:101-109 F '59.

(MIRA 12:3)

1.Leningradskiy ordena Lenina gesudarstvennyy universitet.

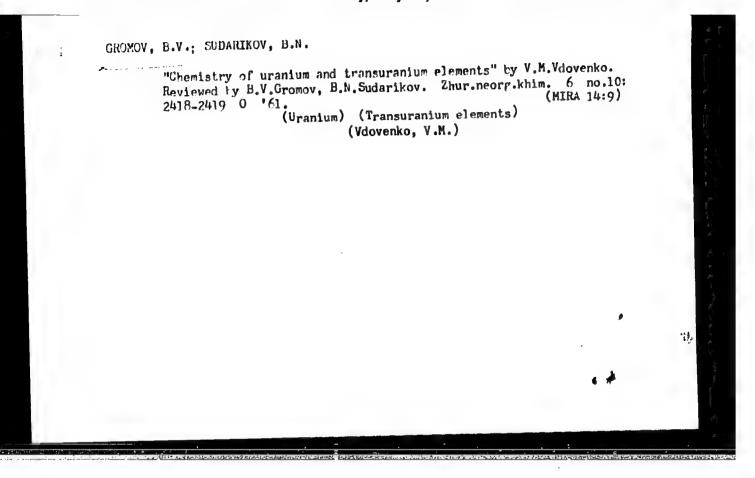
(Soil micre-organisms)

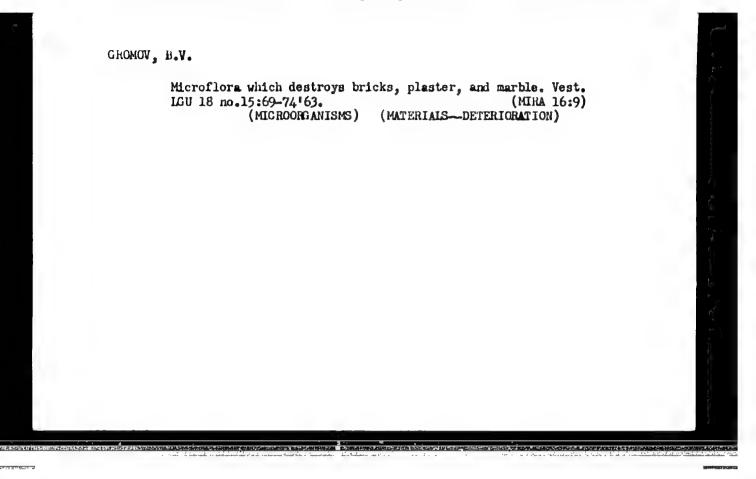


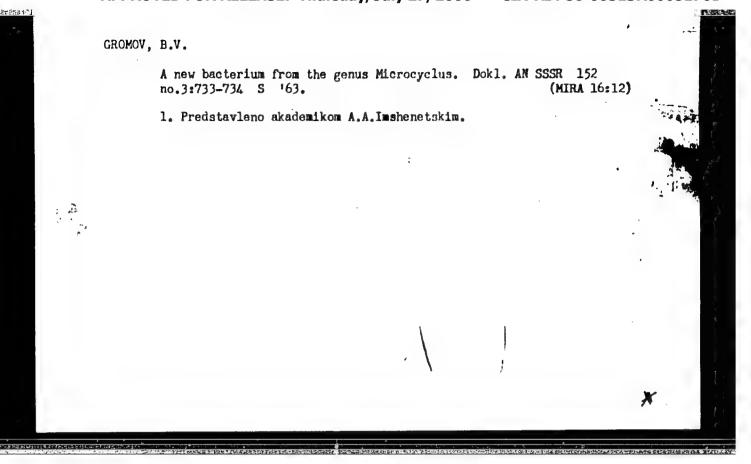


RAZUMOVSKAYA, Zinaida Georgiyevna; prof.; CHIZHIK, Genovefa Yakovlevna; CROMOV, Boris Vasil'yevicn; PZTROVICHEVA, O.L., red.; ZHUKOVA, Ye.G., tekhn.red.

[Laboratory exercises in soil microbiology] Laboratornye zaniatiia po pochvennoi mikrobiologii. Leningrad, Izd-vo Leningrauniv., 1960. 183 p. (MIRA 14:1)







GROMOV, B.V.; KAMESHKOVA, N.N.

Isolation of the antagonists of the alga Chlorella from soils. Nauch. dokl. vys. shkoly; biol. nauki no.1:171-174 '64.

(MIRA 17:4)

1. Rekomendovana kafedroy mikrobiologii Leningradskogo gosudarstvennogo universiteta im. A.A.Zhdanova.

ACCESSION NR: AP4036972

s/0078/64/009/005/1272/1279

AUTHOR: Semenikhin, A. M.; Gromov, B. V.

TITIE: Extractive purification of beryllium with the aid of acid alkylorthophosphates.

SOURCE: Zhurnal neorganicheskoy khimii, v. 9, no. 5, 1964, 1272-1279

TOPIC TAGS: beryllium, purification, extractive purification, extraction, aluminum, ferrous iron, alkylorthophosphoric acid, dodecylorthophosphoric acid, Trilon B, De(OH) sup + aluminum beryllium separation, aluminum iron separation

ABSTRACT: This study was conducted to obtain data on the extraction of beryllium, aluminum and iron from H₂SO_h and HCl media with alkylorthophosphoric acids and to determine the possibility of separating Be from impurities. Extractions were run at about 20C with 10 volume % of the alkylorthophosboric acid in isomeric diisopropylbenzene as diluent; phase separation usually required 3-5 minutes. Complete extraction (and no separation) of these elements is effected from weak alkaline media (pH 7-8) regardless of their original concentration. Al can be complexed with Trilon B to form the non-extractable complex which is removed in

Card 1/3

ACCESSION NR: AP4036972

the aqueous phase; Be does not complex under these conditions. Using 14.4 gm. Trilon B/gm. Al, practically complete separation of Al from Be was effected. When Trilon B is not used, the best separation of Be from Al and Fe' is effected from media containing 10 g/l H₂SO_k; the coefficient of purifying Be from Al is then 7-8, and from Fe' 2, 15-20. F', SiO₂ and Mm' 2 do not significantly affect the extraction of Be, Al and Fe' with acid alkylorthophosphates. A study of the reextraction of Be, Al and Fe' with different concentrations of H₂SO_k and HCl showed 5 N HCl has the best reextraction properties. It is better to maintain Be concentration below 5 g/l in the organic phase to keep phase separation time down to 3 minutes. The coefficient of separation of Be from Al in a second extraction cycle containing 10-15 g/l HCl is about 15-20. If Trilon B is used, the coefficient is increased to 100-120. The Be is extracted as Be(OH). The seemingly low capacity of the extractant for Be is due to the low atomic weight of Be; on a molar basis the capacity for Be is twice that for U. Orig. art. has: 4 tables and 6 figures.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut im. D. I. Mendeleyeva (Moscov Chemical Engineering Institute)

Cord : 2/3

ACCEDICION NR: AP4036972

SUEMITTED: 28Mar63

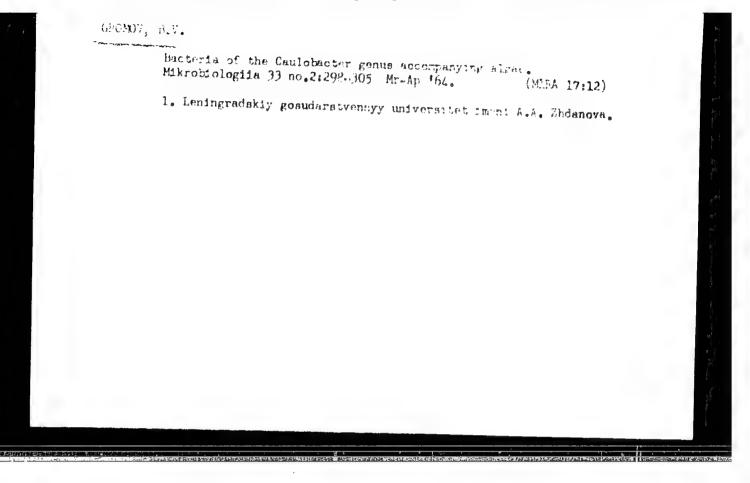
DATE ACQ: 05Jun64

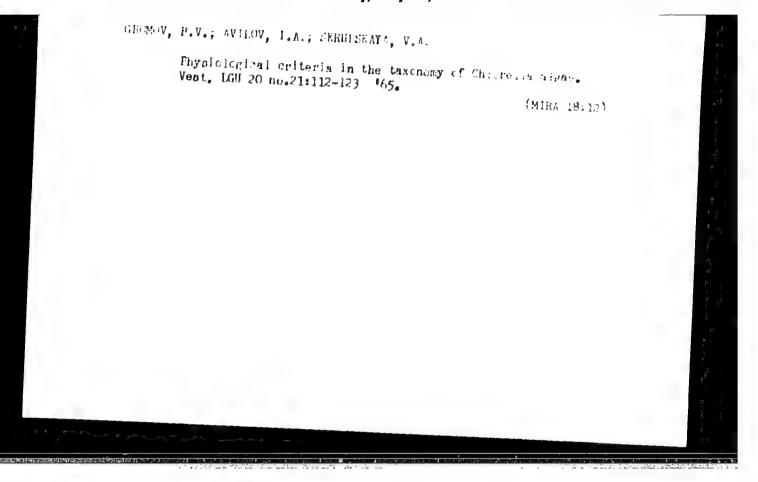
SUB CODE: MM,QC

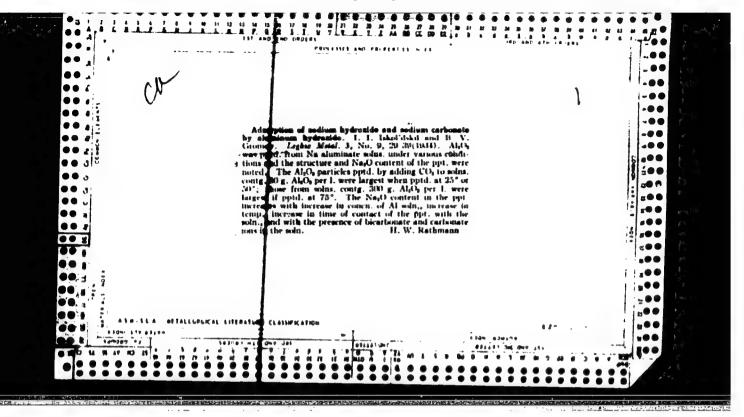
NO REF SOV: 010

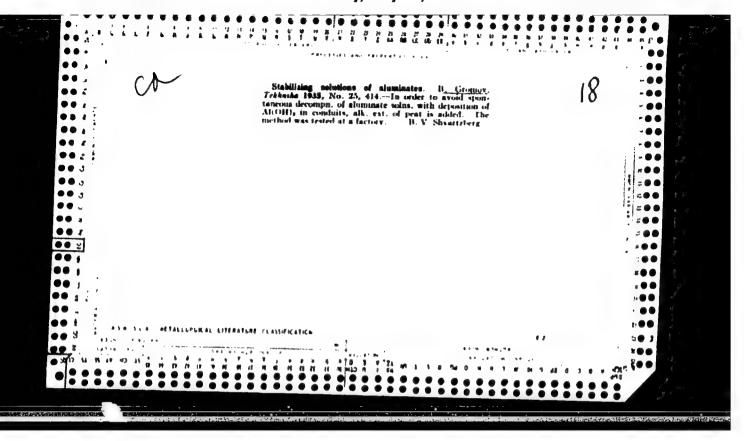
OTHER: 014

Card 3/3









GROLOV 4B3V 3

600

- 1. GRONOV, B. V.; VYALOV, A. V.
- 2. USSR (600)

Experimental Plant of "Glavtsinksvinets" (Main Admin. of Zinc and Lead Industry) "The Separation of Zinc Sulphate Solutions from Iron", Tsvet. Met. 14, No. 7, July 1939.

9. Report U-1506, 4 Oct. 1951

